

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. - 7. (Canceled)

8. (New) A wheel-acting force measuring system for measuring for measuring force generated by a wheel having a road contacting surface, the system comprising:

an axle having a brake disk attachment portion and a spindle portion extending outwardly from said brake disk attachment portion to which said wheel is mounted; and

a stress detecting sensor disposed in a hole in said spindle portion at a position between said brake disc attachment portion and a plane perpendicular to said road contacting surface of said wheel, said hole being sufficiently filled with a filler around said stress detecting sensor to fix the stress detecting sensor in position.

9. (New) The system of claim 8, further comprising:

a brake caliper having a brake caliper angle defined by a caliper fixing axis and a wheel traveling direction; and

 said stress detecting sensor being mounted substantially at said brake caliper angle with respect to said wheel traveling direction and parallel to said caliper fixing axis.

10. (New) The system of claim 8 or 9, wherein said stress detecting sensor is located on a stress center axis of said axle.

11. (New) The system of claim 10, further comprising a signal processing circuit fixedly embedded together with said stress detecting sensor for processing signals from said stress detecting sensor.

12. (New) The system of claim 11, wherein said stress detecting sensor includes a strain gauge disposed at an angle of approximately 45° with respect to said stress center axis of said axle.

13. (New) The system of claim 10, wherein said stress detecting sensor includes a strain gauge disposed at an angle of approximately 45° with respect to said stress center axis of said axle.

14. (New) The system of claim 8 or 9, further comprising a signal processing circuit fixedly embedded together with said stress detecting sensor for processing signals from said stress detecting sensor.

15. (New) The system of claim 8 or 9, wherein said stress detecting sensor includes a strain gauge disposed at an angle of approximately 45° with respect to a stress center axis of said axle.